

ABSTRACT OF THE DISCLOSURE

A metal wire for reinforcing an elastomeric material includes a metal core and a metal coating layer. The core includes a predetermined initial diameter. A method for producing the wire includes submitting the core to at least one surface treatment, thermally treating the core, depositing the coating layer on the core, and drawing the metal-coated metal core. The at least one surface treatment predisposes a surface of the core to being coated with the coating layer. The coating layer is deposited on the core to a predetermined initial thickness using a plasma deposition technique. The metal-coated metal core is drawn until the core includes a final diameter smaller than the predetermined initial diameter and the coating layer includes a final thickness smaller than the predetermined initial thickness. A metal cord for reinforcing an elastomeric material and a method for producing the metal cord are also disclosed.